

FORM PTO-1449 <u>LIST OF DOCUMENTS CITED BY APPLICANT</u>				Atty. Docket No. A-9837E	Appln. No. 10/613,071		
				Applicant Lars Ivar SAMUELSON et al.			
				Filing Date July 7, 2003	Group 2811	2815	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
<i>JG</i>	AA	2002/0172820	11/21/02	Majumdar et al.	428	357	
<i>JG</i>	AB	2002/0129761	9/19/02	Takami	117	73	
<i>JG</i>	AC	5,362,972	11/8/94	Yazawa et al	257	13	
<i>JG</i>	AD	5,332,910	7/26/94	Haraguchi et al.	257	13	
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Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
<i>JG</i>	AE	WO 01/84238	11/8/01	WIPO			
OTHER (including author, title, date, pertinent pages, etc.)							
<i>JG</i>	AF	Yasawa, M. et al., "Heteroepitaxial Ultrafine Wire-Like Growth of InAs on GaAs Substrates", <u>Appl. Phys. Lett.</u> , Vol. 58, No. 10, March 11, 1991, pp. 1080-1082.					
<i>JG</i>	AG	Haraguchi, K. et al., "GaAs p-n junction formed in quantum wire crystals", <u>Applied Physics Letters</u> , Vol. 60, No. 6, February 10, 1992, pp. 745-747					
<i>JG</i>	AH	Yazawa, M., et al., "Effect of one monolayer of surface gold atoms on the epitaxial growth of InAs nanowiskers", <u>Applied Physics Letters</u> , Vol. 61, October 26, 1992, pp. 2051-2053.					
<i>JG</i>	AI	Yazawa, M., "Nanocolumns composed of GaAs-InAs jointed whiskers and SiO <sub>2</sub> covers", <u>Applied Physics Letters</u> , Vol. 65, August 29, 1994, pp. 1157-1158					
<i>JG</i>	AJ	Sato, T., "Site-controlled growth of nanowiskers", <u>Applied Physics Letters</u> , Vol. 66, January 9, 1995, pp. 159-161.					
<i>JG</i>	AK	Hiruma, K., et al., "Growth and optical properties of nanometer-scale GaAs and InAs whiskers", <u>Applied Physics Review</u> , Vol. 77, January 15, 1995, pp. 447-462.					
<i>JG</i>	AL	Hiruma K., et al., "Growth and Characterization of Nanometer-Scale GaAs, AlGaAs and GaAs/InAs Wires", <u>IEICE Trans. Electron.</u> , Vol. E77-C, No. 9, September 1, 1994, pp. 1420-1425.					
<i>JG</i>	AM	Hiruma, K. et al., "GaAs free-standing quantum-size wires", <u>Journal of Applied Physics</u> , Vol. 74, September 1, 1993, pp. 3162-3171.					
<i>JG</i>	AN	Haraguchi, K., et al., "Polarization dependence of light emitted from GaAs p-n junctions in quantum wire crystals", <u>Journal of Applied Physics</u> , Vol. 75, April 15, 1994, pp. 4220-4225.					
<i>JG</i>	AO	Hiruma, K., et al., "Self-organized growth of GaAs/InAs heterostructure nanocylinders by organometallic vapor phase epitaxy", <u>Journal of Crystal Growth</u> , Vol. 163, January 1, 1996, pp. 226-231.					
<i>JG</i>	AP	Lieber, C., "Nanowires as Building Blocks for Nanoscale Science and Technology", <u>Abstracts of Papers of the Amer. Chem Soc.</u> , Vol. 224, August 18, 2002, pp. 033-Comp Part 1.					
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

*Jerome Groboff 3/05*

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<i>JJ</i>	BA	6,190,634	2/20/01	Lieber et al.	423	439	
<i>JJ</i>	BB	6,159,742	12/12/00	Lieber et al.	436	164	
<i>JJ</i>	BC	5,997,832	12/7/99	Lieber et al.	423	249	
<i>JJ</i>	BD	5,840,435	11/24/98	Lieber et al.	428	689	
<i>JJ</i>	BE	5,252,835	10/12/93	Lieber et al.	250	492.1	
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Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
<i>JJ</i>	BF	WO 02/080280	10/10/02	WIPO			
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<i>JJ</i>	BG	Duan, X., et al., "Laser-Assisted Catalytic Growth of Single-Crystal Compound Semiconductor Nanowires", <u>Abstracts of Papers of the Amer. Chem. Soc.</u> , Vol. 219, March 26, 2000, pp. 676-Inor Part 1.					
	BH	Duan, X. et al., "Laser Assisted Catalytic Growth of Semiconductor Nanowires for Nanoscale Electronic Optoelectronic Device Application", <u>Abstracts of Papers of the Amer. Chem. Soc.</u> , Vol. 221, April 1, 2001, pp. 644-Inor Part 1.					
	BI	Lieber, C., "Semiconductor Nanowires: Building Blocks for Nanoscale Science and Technology", <u>Abstracts of Papers of the Amer. Chem. Soc.</u> , Vol. 222, August 1, 2001, pp. 383-Phys Part 2.					
	BJ	Huang, Y., et al., "Integrated Optoelectronics Assembled from Semiconductor Nanowires", <u>Abstracts of Papers of the Amer. Chem. Soc.</u> , Vol. 224, August 18, 2002, pp. 093-Phys - Part 2.					
	BK	Hu, J. et al., "Chemistry and Physics in One Dimension: Synthesis and Properties of Nanowires and Nanotubes", <u>Acc. Chem. Res.</u> , Vol. 32, No. 5, February 20, 1999, p. 435-445.					
	BL	Duan, X. et al., "General Synthesis of Compound Semiconductor Nanowires", <u>Advanced Materials</u> , Vol. 12, No. 4, January 1, 2000, pp. 298-302.					
	BM	Duan, X., et al., "Synthesis and optical properties of gallium arsenide nanowires", <u>Applied Physics Letters</u> , Vol. 76, No. 9, February 28, 2000, pp. 1116-1118.					
<i>JJ</i>	BN	Cui, Y., et al., "Diameter-controlled synthesis of single-crystal silicon nanowires", <u>Applied Physics Letters</u> , Vol. 78, No. 15, April 9, 2001, pp. 2214-2216.					
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	CA	6,307,241	10/23/01	Awschalom et al.	257	421	
	CB	5,196,396	3/23/93	Lieber	505	1	
	CC	6,716,409	4/6/04	Hafner et al.	423	447	

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	CD	WO 03/005450	1/16/03	WIPO			

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*	CE	Gudiksen M.S., et al., "Diameter-selective synthesis of semiconductor nanowires", <u>J. Am. Chem. Soc.</u> , Vol. 122, August 22, 2000, pp. 8801-8802.
	CF	Gudiksen M., et al., "Size-Dependent Photoluminescence from Single Indium Phosphide Nanowires", <u>Journal of Physical Chemistry B</u> , Vol. 106, No. 16, March 30, 2002, pp. 4036-4039.
*	CG	Duan, X., et al., "Laser-Assisted Catalytic Growth of Single Crystal GaN Nanowires", <u>Journal of Amer. Chem. Soc.</u> , Vol. 122, NO. 1, December 16, 1999, pp. 188-189.
	CH	Huang, Y., et al., "Gallium Nitride Nanowire Nanodevices", <u>Nano Letters</u> , Vol. 2, No. 2, January 11, 2002, pp. 81-82.
	CI	Lieber C., "Nanowire Superlattices", <u>Nano Letters</u> , Vol. 2, No. 2, January 25, 2002, pp. 82-82.
	CJ	Duan, X., et al., "Nonvolatile Memory and Programmable Logic from Molecule-Gated Nanowires", <u>Nano Letters</u> , Vol. 2, No. 5, May 1, 2002, pp. 487-490.
	CK	Cui, Y., et al., "High Performance Silicon Nanowire Field Effect Transistors", <u>Nano Letters</u> , Vol. 3, No. 2, January 1, 2003, pp. 149-152.
	CL	Zhong, Z., et al., "Synthesis of P-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices", <u>Nano Letters</u> , Vol. 3, No. 3, February 20, 2003, pp. 343-346.
*	CM	Hu, J., et al., "Controlled Growth and Electrical Properties of Heterojunctions of Carbon Nanotubes and Silicon Nanowires", <u>Nature</u> , Vol. 399, May 6, 1999, pp. 48-51.

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\* PTO did not receive

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<i>J</i>	DA	6,743,408	6/1/04	Lieber et al.	423	447.1	
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<i>J</i>	DB	WO 01/03208	1/11/01	WIPO			
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	DC	Duan, X., et al., "Indium phosphide nanowires as building blocks for nanoscale electronic and optoelectronic devices", <u>Nature</u> , Vol. 409, January 4, 2001, pp. 66-69.					
	DD	Gudiksen M., et al., "Growth of nanowire superlattice structures for nanoscale photonics and electronics", <u>Nature</u> , Vol. 415, February 7, 2002, pp. 617-620.					
	DE	Lauhon, L., et al., "Epitaxial Core-Shell and Core-Multishell Nanowire Heterostructures", <u>Nature</u> , Vol. 420, No. 6911, November 7, 2002, pp. 57-61.					
	DF	Duan, X., "Single-nanowire electrically driven lasers", <u>Nature</u> , Vol. 421, January 16, 2003, pp. 241-244.					
	DG	Lieber, C., "The incredible shrinking circuit", <u>Sci. Am.</u> , Vol. 285, September 1, 2001, pp. 58-64.					
	DH	Morales, A., et al., "A Laser Ablation Method for the Synthesis of Crystalline Semiconductor Nanowires", <u>Science</u> , Vol. 279, January 9, 1998, pp. 208-211.					
	DJ	Cui Y., et al., "Functional Nanoscale Electronic Devices Assembled Using Silicon Nanowire Building Blocks", <u>Science</u> , Vol. 291, February 2, 2001, pp. 851-853.					
	DK	Wang, J., et al., "Highly Polarized Photoluminescence and Photodetection from Single Indium Phosphide Nanowires", <u>Science</u> , Vol. 293, No. 5534, August 24, 2001, pp. 1455-1457.					
<i>J</i>	DL	Cui Y., et al., "Nanowire nanosensors for highly sensitive and selective detection of biological and chemical species", <u>Science</u> , Vol. 293, August 17, 2001, pp. 1289-1292.					
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*Jerome Jackson* 3/05-

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	EC	Buang, Y., et al., "Logic Gates and Computation from Assembled Nanowire Building Blocks", <u>Science</u> , Vol. 294, November 9, 2001, pp. 1313-1317.					
	ED	Cui, Y., et al., "Doping and Electrical Transport in Silicon Nanowires", <u>The Journal of Physical Chemistry B</u> , Vol. 104, No. 22, May 11, 2000, pp. 5213-5216.					
	EE	Gudiksen M., et al., "Synthetic Control of the Diameter and Length of Single Crystal Semiconductor Nanowires", <u>The Journal of Physical Chemistry B</u> , Vol. 105, April 18, 2001, pp. 4062-4064.					
	EF	Morales, A. et al., "Rational Synthesis of Silicon Nanowires", <u>INOR</u> , 651, January 1, 2001.					
	EG	Wong E., et al., "Nanobeam Mechanics: Elasticity, Strength, and Toughness of Nanorods and Nanotubes", <u>Science</u> , Vol. 277, September 26, 1997, pp. 1971-1975.					
	EH	Dai, H., et al., "Synthesis and Characterization of Carbide Nanorods", <u>Nature</u> , Vol. 375, June 29, 1995, pp. 769-772.					
	EI	Junno, T., et al., "Controlled manipulation of nanoparticles with an atomic force microscope", <u>Applied Physics Letters</u> , Vol. 66, June 26, 1995, pp. 3627-3629.					
	EJ	Zwiller, V., et al., "Single quantum dots emit single photons at a time: Antibunching experiment", <u>Applied Physics Letters</u> , Vol. 78, No. 17, April 23, 2001, pp. 2476-2478.					
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	FA						
<b>FOREIGN PATENT DOCUMENTS</b>							
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	FB	WO 95/02709	1/26/95	WIPO			
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CP	FC	Borgstrom, M., et al., "High peak-to-valley ratios observed in InAs/InP resonant tunneling quantum dot stacks", <u>Applied Physics Letters</u> , Vol. 78, No. 21, May 21, 2001, pp. 3232-3234.					
	FD	Thelander, et al., "Gold nanoparticle single-electron transistor with carbon nanotube leads", <u>Applied Physics Letters</u> , Vol. 79, No. 13, September 24, 2001, pp. 2106-2108.					
	FE	Ohlsson B.J., et al., "Size-, shape-, and position-controlled GaAs nano-whiskers", <u>Applied Physics Letters</u> , Vol. 79, No. 20, November 12, 2001, pp. 3335-3337.					
	FF	Bjork, M.T., et al., "One-dimensional heterostructures in semiconductor nanowhiskers", <u>Applied Physics Letters</u> , Vol. 80, No. 6, February 11, 2002, pp. 1058-1060.					
	FG	Persson, M.P. et al., "Electronic Structure of Nanometer-Scale GaAs Whiskers", <u>Applied Physics Letters</u> , Vol. 81, No. 7, August 12, 2002, pp. 1309-1311.					
	FH	Thelander, C., et al., "Single-Electron Transistors in Heterostructure Nanowires", <u>Applied Physics Letters</u> , Vol. 83, No. 10, September 8, 2003, pp. 2052-2054.					
	FI	Panav, N., et al., "Sharp Exciton Emission From Single InAs Quantum Dots in GaAs Nanowires", <u>Applied Physics Letters</u> , Vol. 83, No. 11, September 15, 2003, pp. 2238-2240.					
	FJ	Bjork, M.T., "Nanowire resonant tunnelling diodes", <u>Applied Physics Letters</u> , Vol. 81, No. 23, December 2, 2002, pp. 4458-4460.					
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	GC	Persson, A., "Oriented Growth of InAs-based Nanowiskers", Diploma Work, Lund Institute of Technology, Lund University, May 29, 2001, pp. 1-48.					
	GD	Ohlsson, J., "Semiconductor Hetero- and Nanostructures", Doctoral Thesis, Lund Institute of Technology, Lund University, November 23, 2001.					
	GE	Thelander, C., "Quantum Devices from the Assembly of Zero-and One-Dimensional Building Blocks", Doctoral Thesis, Lund University, November 7, 2003.					
	GF	Ohlsson, B., et al., "Anisotropic GaAs island phase grown on flat GaP: A stranski-Krastanow-formed corrugated surface", <u>Journal of Applied Physics</u> , Vol. 89, No. 10, May 15, 2001, pp. 5726-5730.					
	GG	Magnusson, M., et al., "Gold nanoparticles: Production, reshaping, and thermal charging", <u>Journal of Nanoparticle Research</u> , Vol. 1, January 1, 1999, pp. 243-251.					
	GH	Samuelson, L., "Self-Forming Nanoscale Devices", <u>Materials Today</u> , October 22, 2003, pp. 22-31.					
	GI	Ohlsson, B., et al., "Fabrication and characterization of III-V nanowiskers", <u>MSS10 Conference - Austria</u> , July 23-27, 2001.					
	GJ	Bjork, M.T., et al., "One-dimensional Steeplechase for Electrons Realized", <u>Nano Letters</u> , Vol. 2, No. 2, January 19, 2002, pp. 87-89.					
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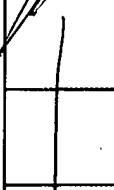
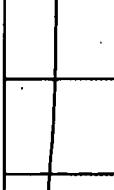
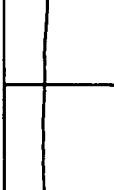
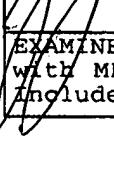
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	HA						
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	HC	<b>Martensson, T., et al., "Fabrication of Individually Seeded Nanowire Arrays by Vapour-Liquid-Solid Growth", <u>Nanotechnology</u>, No. 14, October 17, 2003, pp. 1255-1258..</b>					
	HD	<b>Burgess, D.S., "Nanowire Heterostructures Form Tunneling Diodes", <u>Photonics Spectra</u>, Vol. 37, No. 2, pp. 3-5.</b>					
	HE	<b>Pettersson, H., et al., "Electrical and Optical Properties of Self-Assembled InAs Quantum Dots in InP Studied by Space-Charge Spectroscopy and Photoluminescence", <u>Phys. Rev. B</u>, Vol. 61, No. 7, February 15, 2000, pp. 4795-4800.</b>					
	HF	<b>Ohlsson, B.J., et al., "Growth and characterization of GaAs and InAs nano-whiskers and InAs/GaAs heterostructures", <u>Physica E</u>, No. 13, March 1, 2002, pp. 1126-1130.</b>					
	HG	<b>Samuelson, L., et al., "Tunnel-Induced Photon Emission in Semiconductors Using an STM", <u>Physica Scripta</u>, Vol. T42, January 1, 1992, pp. 149-152.</b>					
	HH	<b>Seifert, W. et al, "In-Situ Growth of Quantum Dot Structures by the Stranski-Krastanow Growth Mode", <u>Prog. Crys. Growth Charact.</u>, Vol. 33, January 1, 1996, pp. 423-471.</b>					
	HI	<b>Persson, M., "Tight-Binding Simulation of Nanocrystalline Particles and Whiskers", Tekn lic thesis, Lund University, August 1, 2002.</b>					
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<i>[Signature]</i>	IC	Murphy, C.J., et al., "Controlling the Aspect Ratio of Inorganic Nanorods and Nanowires", <u>Advanced Materials</u> , Vol. 14, No. 1, January 4, 2002, pp. 80-82.					
<i>[Signature]</i>	ID	Wagner, R.S., et al., "Vapour-Liquid-Solid Mechanism of Single Crystal Growth", <u>Appl. Phys. Lett.</u> , Vol. 4, No. 5, March 1, 1964, pp. 89-90.					
<i>[Signature]</i>	IE	Canham, L.T., "Silicon Quantum Wire Array Fabrication by Electrochemical and Chemical Dissolution of Wafers", <u>Appl. Phys. Lett.</u> , Vol. 57, September 3, 1990, pp. 1046-1048.					
<i>[Signature]</i>	IF	Koga, T., et al., "Carrier Pocket Engineering Applied to Strained ....", <u>Appl. Phys. Lett.</u> , Vol. 75, October 18, 1999, pp. 2438-2440.					
<i>[Signature]</i>	IG	Koga, T., et al., "Experimental Proof-of-Principle Investigation of Enhanced Z,T in (001) Oriented Si/Ge Superlattices", <u>Appl. Phys. Lett.</u> , Vol. 77, No. 10, September 4, 2000, pp. 1490-1492.					
<i>[Signature]</i>	IH	Narihiro, M., et al., "Resonant tunneling of electrons via 20 nm scale InAs quantum dot and magnetotunneling spectroscopy of its electronic states", <u>Applied Physics Letters</u> , Vol. 70, No. 1, January 6, 1997, pp. 105-107.					
<i>[Signature]</i>	II	Pan, Z., et al., "Conduction band offset and electron effective mass in GaInNAs/GaAs quantum-well structures with low nitrogen concentration", <u>Applied Physics Letters</u> , Vol. 78, No. 15, April 9, 2001, pp. 2217-2219.					
<i>[Signature]</i>	IJ	Ferry, D.K., et al., "Transport in Nanostructures", <u>Cambridge University Press</u> , Hardcover, January 1, 1997, pp. 41-45.					
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<u>LIST OF DOCUMENTS CITED BY APPLICANT</u>				Applicant Lars Ivar SAMUELSON et al.			
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	JB						
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X	JC	Ferry, D.K., et al., "Transport in Nanostructures", <u>Cambridge University Press</u> , Hardcover, January 1, 1997, pp. 91-96.					
<i>J</i>	JD	Givargizov, E., "Growth of Whiskers by the Vapor-Liquid-Solid Mechanism", <u>Current Topics in Material Science</u> , edited by E. Kaldis, Chapter 3, Vol. 1, January 1, 1978, pp. 79-145.					
	JE	Mullins, J., "News analysis: using unusable frequencies", <u>IEEE Spectrum</u> , Vol. 39, No. 7, July 1, 2002, pp. 22-23.					
	JF	Randall, J.N., et al., "Quantum Dot Devices", in Norman G. Einspruch and William R. Frensel, eds., <u>Heterostructures and Quantum Devices</u> (San Diego, CA: Academic Pres, Inc., 1994) Copyright 1994, p. 420.					
	JG	Markowitz, P.D., et al., "Phase Separation in Al <sub>x</sub> Ga <sub>1-x</sub> As Nanowiskers Grown by the Solution-Liquid-Solid Mechanism", <u>J. Am. Chem. Soc.</u> , Vol. 123, April 18, 2001, pp. 4502-4511.					
	JH	Hickmott, T.W., et al., "Negative Charge, Barrier Heights, and the Conduction-Ban Discontinuity in Al <sub>x</sub> Ga <sub>1-x</sub> As Capacitors", <u>J. Appl. Phys.</u> , Vol. 57, April 15, 1985, pp. 2844-2853.					
	JI	Mathews, J., et al., "Defects in Epitaxial Multilayers", <u>J. Cryst. Growth</u> , Vol. 27, January 1, 1974, pp. 118-125.					
<i>DD</i>	JJ	Kovtyukhova, N., et al., "Layer-by-Layer Assembly Rectifying Junctions in and on Metal Nanowires", <u>J. Phys. Chem. B.</u> , Vol. 105, August 14, 2001, pp. 8762-8769.					
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	KC	Sakaki, H., "Scattering Suppression and High-Mobility Effect of Size-Quantized Electrons in Ultrafine Semiconductor Wire Structures", <u>Japanese Journal of Applied Physics</u> , Vol. 19, No. 12, December 1, 1980, pp. L735-L738.					
	KD	Scheibel, H. et al., "Generation of Monodisperse Ag- and NaCl Aerosols With Particle Diameters Between 2 and 300 nm", <u>Journal of Aerosol Science</u> , Vol. 14, No. 2, January 1, 1983, pp. 113-126.					
	KE	Knutson, E. et al., "Aerosol Classification by Electric Mobility: Apparatus, Theory, and Applications", <u>Journal of Aerosol Science</u> , Vol. 6, January 1, 1975, pp. 443-451.					
	KF	Miller, M. et al., "Serpentine Superlattice: Concept and First Results", <u>Journal of Crystal Growth</u> , Vol. 111, January 1, 1991, pp. 323-327.					
	KG	Bhat, R., et al., "Patterned Quantum Well Heterostructures Grown by OMCDV on Non-Planar Substrates: Applications to Extremely Narrow SQW Lasers", <u>Journal of Crystal Growth</u> , Vol. 93, January 1, 1988, pp. 850-856.					
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	KI	Givargizov, E.I., "Fundamental Aspects of VLS Growth", <u>Journal of Crystal Growth</u> , Vol. 31, January 1, 1975, pp. 20-30.					
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<i>J</i>	LC	Iijima, S., "Helical microtubules of graphitic carbon", <u>Nature</u> , Vol. 354, November 7, 1991, pp. 56-58.					
<i>J</i>	LD	Yao, Z., et al., "Carbon Nanotube Intramolecular Junctions", <u>Nature</u> , Vol. 402, November 18, 1999, pp. 273-276.					
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	LF	Michler, P. et al., "Quantum correlation among photons from a single quantum dot at room temperature", <u>Nature</u> , Vol. 406, No. 6799, August 31, 2000, pp. 968-970.					
	LG	Chow, E., et al., "Three-dimensional control of light in a two-dimensional photonic crystal slab", <u>Nature</u> , Vol. 407, October 26, 2000, pp. 983-986.					
	LH	Venkatasubramanian, R., et al., "Thin-Film Thermoelectric Devices with High Room-Temperature Figures of Merit", <u>Nature</u> , Vol. 413, October 11, 2003, pp. 597-602.					
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<i>JJ</i>	LJ	Hicks, L.D. et al., "Thermoelectric Figure of Merit of a One-Dimensional Conductor", <u>Phys. Rev. B</u> , Vol. 47, No. 24, June 15, 1993, pp. 16631-16634.					
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<i>[Signature]</i>	MC	Itskevich, I.E., et al., "Resonant magnetotunneling through individual self-assembled InAs quantum dots", <u>Physical Review B</u> , Vol. 54, No. 23, December 15, 1996, pp. 16401-16404.					
<i>[Signature]</i>	MD	Reed, M.A., et al., "Observation of Discrete Electronic States in a Zero-Dimensional Semiconductor Nanostructure", <u>Physical Review Letters</u> , Vol. 60, No. 6, February 8, 1988, pp. 535-537.					
<i>[Signature]</i>	ME	Kapon, E., et al., "Stimulated Emission in Semiconductor Quantum Wire Heterostructures", <u>Physical Review Letters</u> , Vol. 63, No. 4, July 24, 1989, pp. 430-433.					
<i>[Signature]</i>	MF	Santori, C., et al., "Triggered Single Photons from a Quantum Dot", <u>Physical Review Letters</u> , Vol. 86, No. 8, February 19, 2001, pp. 1502-1505.					
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	ND	Zhou, C.W., et al., "Modulated chemical doping of individual carbon nanotubes", <u>Science</u> , Vol. 290, November 24, 2000, pp. 1552-1555.					
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	NF	Bachtold, A., et al., "Logic circuits with carbon nanotube transistors", <u>Science</u> , Vol. 294, November 9, 2001, pp. 1317-1320.					
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	NH	Service, R.F., "Nanowire Fabricators Earn Their Stripes", <u>Science</u> , Vol. 295, No. 5557, January 1, 2002, pp. 946-947.					
	NI	Awschalom, D.D. et al., "Spintronics", <u>Scientific American</u> , Vol. 286, No. 6, June 1, 2002, pp. 66-73.					
<i>J</i>	NJ	Henning, P., et al., "Compositional information from amorphous Si-Ge multilayers using high-resolution electron microscopy imaging and direct digital recording", <u>Ultramicroscopy</u> , Vol. 66, January 1, 1996, pp. 221-235.					
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<i>J</i>	OC	Wagner, R.S., "VLS Mechanism of Crystal Growth", <u>Whisker Technology</u> , A.P. Levitt, ed., Chapter 3, January 1, 1970, pp. 47-119.					
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<i>J</i>	OF	Laughlin, R.B., et al., "For their discovery of a new form of quantum fluid with frictionally charged excitations", <u>www.nobel.se/physics/laureates/1998/</u> , June 16, 2000.					
<i>J</i>	OG	Oda, Y., et al., "Natural Formation of Square Scale Structures on Patterned Vicinal Substrates by MOVPE: Application to the Fabrication of Quantum Structures", <u>Phys. Conf. Ser.</u> , No. 166, Chapter 4, August 22-26, 1999, pp. 191-194.					
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<i>J</i>	OI	Akabori, M. et al., "Selective Area MOVPE Growth of Two-Dimensional Photonic Crystals Having an Air-Hole Array and its Application to Air-Bridge-Type Structures", <u>Physica E</u> , No. 13, January 1, 2002, pp. 446-450.					
<i>J</i>	OJ	Melechko, A.V., et al., "Large-Scale Synthesis of Arrays of High-Aspect-Ratio Rigid Vertically Aligned Carbon Nanofibres", <u>Nanotechnology</u> , No. 14, August 19, 2003, pp. 1029-1035.					
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<i>[Signature]</i>	PC	Kempa, R., et al., "Photonic Crystals Based on Periodic Arrays of Aligned Carbon Nanotubes", <u>Nano Letters</u> , Vol. 3, No. 1, November 19, 2002, pp. 13-18.					
<i>[Signature]</i>	PD	Takahashi, H., et al., "Formation and Characteristics of 100 nm Scale GaAs Quantum Wires by Selective Area MOVPE", <u>Applied Surface Science</u> , No. 216, January 1, 2003, pp. 402-406.					
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	PF	Kamins, T.I., et al., "Self-Assembled Silicon Nanowires for Integrating Microsystems, Nanoelectronics and Microelectronics", <u>mstnews</u> , 3/03, March 1, 2003.					
	PG	Wu, Y., et al., "Rational Synthesis of Inorganic Nanowires", <u>Abstracts of Papers in the Amer. Chem. Soc.</u> , Vol. 221, April 1, 2001, pp. 108-1ec Part 1.					
	PH	Yang, P., et al., "Nanowires from Vapor Condensation and their Assemblies", <u>Abstracts of Papers in the Amer. Chem. Soc.</u> , Vol. 219, March 26, 2000, pp. 269-Inor Part 1.					
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	SD	Messer, B., et al., "Microchannel Networks for Nanowire Patterning", <u>Journal of the Amer. Chem. Soc.</u> , Vol. 122, No. 41, September 29, 2000, pp. 10232-10233.					
	SE	Song, J., et al., "MMo <sub>x</sub> Se, (M=Li <sup>+</sup> ,Na <sup>+</sup> ,Rb <sup>+</sup> ,Cs <sup>+</sup> , NMe <sub>4</sub> <sup>+</sup> ) Nanowire Formation via Cation Exchange in Organic Solution", <u>Journal of the Amer. Chem. Soc.</u> , Vol. 123, No. 39, March 10, 2001, pp. 9714-9715.					
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	TB						
<b>OTHER</b> (including author, title, date, pertinent pages, etc.)							
<i>[Signature]</i>	TC	Johnson, J., et al., "Single Gallium Nitride Nanowire Lasers", <u>Nature Materials</u> , Vol. 1, No. 2, September 15, 2002, pp. 106-110.					
<i>[Signature]</i>	TD	Huang, M.H., et al., "Room-Temperature Ultraviolet Nanowire Nanolasers", <u>Science</u> , Vol. 292, June 8, 2001, pp. 1897-1899.					
	TE	Wu, Y., et al., "Germanium Nanowire Growth via Sample Vapor Transport", <u>Chem. Mater.</u> , Vol. 12, March 20, 2000, pp. 605-607.					
	TF	Wu, Y., et al., "Semiconductor Nanowire Array: Potential Substrates for Photocatalysis and Photovoltaics", <u>Topics in Catalysis</u> , Vol. 19, No. 2, April 1, 2002, pp. 197-202.					
	TG	Hiruma, K. et al., "GaAs free-standing quantum-size wires", <u>Journal of Applied Physics</u> , Vol. 74, September 1, 1993, pp. 3162-3171.					
	TH	Liu J. L. et al., "Gas-source MBE growth of freestanding Si nanowires on Au/Si substrate", <u>Superlattices Microstructures</u> , 1999, Vol. 25, No. 1-2, pp. 477-479.					
	TI	Shimada et al., "Size, position and direction control on GaAs and InAs nanowhisker growth", <u>Superlattices and Microstructures</u> , Vol. 24, No. 6, December 1998, pp. 453-458					
	TJ	Shirai M., et al., "Gold cluster formation using an atomic force microscope and its applications to GaAs whisker growth", <u>Superlattices and Microstructures</u> , Vol. 24, No. 2, August 1998, pp. 157-162.					
	TK	Hiruma, K. et al., "GaAs and InAs Nanowire Growth Technology", <u>Proceedings of the Science and Technology of Atomically Engineered Materials</u> , October 30, 1995, pp. 563-570					
<i>[Signature]</i>	TL	Westwater, J. et al., "Control of the size and position of silicon nanowires grown via the vapor-liquid-solid technique", <u>Japanese Journal of Applied Physics</u> , Part 1, October 1997, Vol. 36, pp. 6204-6209					
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	TA 2003/0200521	10/23/03	DeHon et al.	716	16	
	TB 5,544,617	8/13/96	Terui et al.	117	87	
	TC 5,858,862	1/12/99	Westwater et al.	438	503	
	TD 5,976,957	11/2/99	Westwater et al.	438	478	
	TE 6,130,142	10/10/00	Westwater et al.	438	478	
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	TG 2003/0121764	7/3/03	Yang et al.	200	262	
	TH 2002/0129761	9/19/02	Takami	117	73	
	TI 2002/0172820	11/21/02	Majumdar et al.	428	357	
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	TI 02/48701	6/20/02	WIPO			
	TJ 02/17362	2/28/02	WIPO			
	TK 03/053851	7/3/03	WIPO			
	TL 03/063208	7/31/03	WIPO			
	TM 0 443 920	8/28/91	Europe			abstract
	TN 2000-068493	3/3/00	Japan			abstract
	TO 0 838 865	4/29/98	Europe			
<b>OTHER</b> (including author, title, date, pertinent pages, etc.)						
	TP	O'Regan et al., "A Low-Cost, High-Efficiency Solar Cell Based on Dye-Sensitized Colloidal TiO <sub>2</sub> Films", <u>Nature</u> , Vol. 353, October 24, 1991, pp. 737-740.				
	TQ	Jun et al., "Architectural Control of Magnetic Semiconductor Nanocrystals", <u>J. Am. Chem. Soc.</u> , Vol. 124, No. 4, January 4, 2002, pp. 615-619.				
	TR	Manna et al., "Synthesis of Soluble and Processable Rod-, Arrow-, Teardrop-, and Tetrapod-Shaped CdSe Nanocrystals", <u>J. Am. Chem. Soc.</u> , Vol. 122, No. 51, December 1, 2000, pp. 12700-12706.				
	TS	Huang et al., "Directed Assembly of one-dimensional nanostructures into functional networks", <u>Science</u> , Vol. 291, January 26, 2001, pp. 630-633.				
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*Jerom Jabb* 3/05

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	UA	<b>5,899,734</b>	<b>5/4/99</b>	Lee	<b>438</b>	<b>584</b>	
	UB	<b>2002/0175408</b>	<b>11/28/02</b>	Majumdar et al.	<b>257</b>	<b>734</b>	
	UC	<b>6,559,468</b>	<b>5/6/03</b>	Kuekes et al.	<b>257</b>	<b>14</b>	
	UD	<b>2002/0130311</b>	<b>9/19/02</b>	Lieber et al.	<b>257</b>	<b>1</b>	
	UE	<b>2003/0089899</b>	<b>5/15/03</b>	Lieber et al.	<b>257</b>	<b>9</b>	
	UF	<b>2004/0213307</b>	<b>10/28/04</b>	Lieber et al.	<b>372</b>	<b>39</b>	
	UG						
	UH						
	UI						

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	UN	Persson, "Heterointerfaces in III-V semiconductor nanowhiskers", <u>IEEE</u> , 2002, pp. 281-293.
	UO	Gao et al., "Self-Assembled Nanowire-Nanoribbon Junction Arrays of ZnO", <u>The Journal of Physical Chemistry</u> , Vol. 106, No. 49, November 12, 2002, pp. 12653-12658.
	UP	Yan et al., "Dendritic Nanowire Ultraviolet Laser Array", <u>J. Am. Chem. Soc.</u> , Vol. 125, March 29, 2003, pp. 4728-4729.
	UQ	Jun et al., "Controlled Synthesis of Multi-Armed CdS Nanorod Architectures Using Monosurfactant System", <u>J. Am. Chem. Soc.</u> , Vol. 123, May 5, 2001, pp. 5150-5151.
	UR	Poole et al., "Spatially Controlled, Nanoparticle-Free Growth of InP Nanowires", <u>Applied Physics Letters</u> , Vol. 83, No. 10, September 8, 2002, pp. 2055-2057.

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	VE						
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	VF	Hiruma et al., "Quantum Size Microcrystals Grown Using Organometallic Vapor Phase Epitaxy", <u>Appl. Phys. Lett.</u> , Vol. 59, No. 4, July 22, 1991, pp. 431-433.					
	VG	Xia et al., "One-Dimensional Nanostructures: Synthesis, Characterization, and Applications", <u>Adv. Mater.</u> , Vol. 15, No. 5, March 4, 2003, pp. 353-389.					
	VH	Ozaki et al., "Silicon Nanowiskers Grown on a Hydrogen-Terminated Silicon (111) Surface", <u>Applied Physics Letters</u> , Vol. 73, No. 25, December 21, 1998, pp. 3700-3702.					
	VI	Wu et al., "Growth, Branching, and Kinking of Molecular-Beam Epitaxial <110> GaAs Nanowires", <u>Applied Physics Letters</u> , Vol. 83, No. 16, October 20, 2003, pp. 3368-3370.					
	VJ	Grätzel, "Photoelectrochemical Cells", <u>Nature</u> , Vol. 414, November 15, 2001, pp. 338-344.					
	VK	Wang et al., "Nanocrystals Branch Out", <u>Nature Materials</u> , Vol. 2, June 2003, pp. 385-386.					
	VL	Manna et al., "Controlled Growth of Tetrapod-Branched Inorganic Nanocrystals", <u>Nature Materials</u> , Vol. 2, June 2003, pp. 382-385.					
	VM	Oda et al., "Natural Formation of Square Scale Structures on Patterned Vicinal Substrates by MOVPE: Application to the Fabrication of Quantum Stuctures", <u>Inst. Phys. Conf. Ser.</u> , No. 166, Chapter 4, August 22, 1999, pp. 191-194.					
	VN	Hayakawa et al., "AlGaAs Nano-Meter Scale Network Structures Fabricated by Selective Area MOVPE", <u>Inst. Phys. Conf. Ser.</u> , No. 162, Chapter 8, October 12, 1998, pp. 415-419.					
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<i>JJ</i>	WF	<u>McAlpine et al., "Nanoimprint Lithography for Hybrid Plastic Electronics", Nano Letters, Vol. 3, No. 4, March 7, 2003, pp. 443-445.</u>					
<i>JJ</i>	WG	<u>Bozovic et al., "Plastic Deformation in Mechanically Strained Single-Walled Carbon Nanotubes", Physical Review B, Vol. 67, January 22, 2003, pp. 033407-1 - 033407-4.</u>					
	WH	<u>Lieber, "Nanoscale Science and Technolgy: Building a Big Future from Small Things", MRS Bulletin, July 2003, pp. 486-491.</u>					
	WI	<u>Yu et al., "Silicon Nanowires: Preparation, Device Fabrication, and Transport Properties", J. Phys. Chem. B., Vol. 104, No. 50, November 23, 2000, pp. 11864-11870.</u>					
	WJ	<u>Law et al., "Photochemical Sensing of NO, with SnO, Nanoribbon Nanosensors at Room Temperature", Angew. Chem. Int. Ed., Vol. 41, No. 13, 2002, pp. 2405-2408.</u>					
	WK	<u>Lao et al., "Hierarchical ZnO Nanostructures", Nano Letters, Vol. 2, September 13, 2002, pp 1287-1291.</u>					
	WL	<u>Barrelet et al., "Synthesis of CdS and ZnS Nanowires Using Single-Source Molecular Precursors", J. Am. Chem. Soc., Vol. 125, 2003, pp. 11498-11499.</u>					
	WM	<u>Hornstra, "Dislocations in the Diamond Lattice", J. Phys. Chem. Solids, Vol. 5, January 1, 1958, pp. 129-141.</u>					
	WN	<u>Krost et al., "InP on Si(111): Accommodation of Lattice Mismatch and Structural Properties", Appl. Phys. Lett., Vol. 64, No. 7, February 7, 1994, pp. 769-771.</u>					
	WO	<u>Gorbach et al., "Growth of III-V Semiconductor Layers on Si Patterned Substrates", Thin Solid Films, Vol. 336, 1998, pp. 63-68.</u>					
	WP	<u>Kawanami, "Heteroepitaxial Technologies of III-V on Si", Solar Energy Materials &amp; Solar Cells, Vol. 66, 2001, pp. 479-486.</u>					
	WQ	<u>Westwater et al., "Growth of Silicon Nanowires Via Gold/Silane Vapor-Liquid-Solid Reaction", J. Vac. Sci. Technol. B., Vol. 15, No. 3, 1997, pp. 554-557.</u>					
<i>JJ</i>	WR	<u>Ramins et al., "Ti-Catalyzed Si Nanowires by Chemical Vapor Deposition: Microscopy and Growth Mechanisms", Journal of Applied Physics, Vol. 89, No. 2, January 15, 2001, pp. 1008-1016.</u>					
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	XE						
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<i>[Signature]</i>	XF	Thornton et al., "A Photoemission Study of Passivated Silicon Surfaces Produced by Etching in Solutions of HF", <u>Semicond. Sci. Technol.</u> , Vol. 4, 1989, pp. 847-851.					
<i>[Signature]</i>	XG	Westwater et al., "Si Nanowires Grown Via the Vapour-Liquid-Solid Reaction", <u>Phys. Stat. Sol.</u> , Vol. (a)165, 1998, pp. 37-42.					
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	XJ	Yang, "Semiconductor Nanowire Array", <u>Proceedings of the SPIE</u> , Vol. 4806, 2002, pp. 222-224.					
	XX	Abramson et al., "Nanowire Composite Thermoelectric Devices", <u>Proceedings of IMECE2002, ASME International Mechanical Engineering Congress &amp; Exposition</u> , November 17-22, 2002, pp. 7-11.					
	XL	Johnson et al., "Single Nanowire Waveguides and Lasers", <u>Proceedings of SPIE</u> , Vol. 5223, 2003, pp. 187-196.					
	XM	Greene et al., "Low-Temperature Wafer-Scale Production of ZnO Nanowire Arrays", <u>Angew. Chem. Int. Ed.</u> , Vol. 42, 2003, pp. 3031-3034.					
	XN	Choi et al., "Self-Organized GaN Quantum Wire UV Lasers", <u>J. Phys. Chem. B.</u> , Vol. 107, 2003, pp. 8721-8725.					
	XO	Samuelson et al., "Fabrication and Spectroscopic Studies of InP/GaInAs/InP and GaAs/GaInAs/GaAs Quantum-Well Wire Structures", <u>Inst. Phys. Confer. Ser.</u> No. 127, Chapter 3, January 1, 1992, pp. 95-98.					
<i>[Signature]</i>	XP	Samuelson et al., "Fabrication and Imaging of Quantum Well Wire Structures", <u>SPIE</u> , Vol. 1676, 1992, pp. 154-160.					
<i>[Signature]</i>	XQ	Ramvall et al., "Quantized Conductance in a Heterostructurally Defined Ga <sub>0.7</sub> In <sub>0.3</sub> As/InP", <u>Appl. Phys. Lett.</u> , Vol. 71, August 18, 1997, pp. 918-920.					
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<i>J</i>	YF	Ng et al., "Growth of Epitaxial Nanowires at the Junctions of Nanowalls", <u>Science</u> , Vol. 300, May 23, 2003, p. 12.					
<i>J</i>	YG	Björk et al., "Heterostructures in One-Dimensional Nanowires", <u>Proceedings of 7<sup>th</sup> International Conference of Nanometer-Scale Science and Technology and 21<sup>st</sup> European Conference on Surface Science</u> , June 24, 2002.					
	YH	Ohlsson et al., "Comparison Between (III)B and (100)III-V Nanowhiskers", <u>Proceedings of 7<sup>th</sup> International Conference of Nanometer-Scale Science and Technology and 21<sup>st</sup> European Conference on Surface Science</u> , June 24, 2002.					
	YI	Larsson et al., "In-Situ Manipulations and Electrical Measurements of III-V Nanowhiskers with TEM-STM", <u>Proceedings of 7<sup>th</sup> International Conference of Nanometer-Scale Science and Technology and 21<sup>st</sup> European Conference on Surface Science</u> , June 24, 2002.					
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<i>J</i>	YK	Ohlsson et al., "Anti-Domain-Free GaP, Grown in Atomically Flat (001) Si Sub-μm-sized Openings", <u>Applied Physics Letters</u> , Vol. 80, No. 24, June 17, 2002, pp. 4546-4548.					
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